ABSTRACT

communication system enabling significant reduction in delay in handover between MAPs without increasing the number of MAPs to install. communication system, MAP(101) issues Advertisement to AR(111) to AR(118). Particularly, MAP(101) assigns a plurality of Router Advertisements of a source of care-of address (RCOA) to register with HA to AR(118) of a cell on either side of a boundary of 10 areas for each MAP. MN(107) receives a Router Advertisement transmitted from AR that is a communicating party among AR(119) to AR(126), and using the Router Advertisement, generates care-of addresses, RCOA and LCOA. AR(111) to AR(118) transmit the Router Advertisement RA 15 generated by MAP(101) to MN in communication. Further, AR(111) to AR(118) transmit the care-or-addresses, RCOA and LCOA, issued from MN(107) to MAP(101).

Table 1

Term	Description	Remarks
Mobile Node (MN)	Mobile Terminal	
Correspond Node	Communicating party of	-
(CN)	MN	
Home Agent (HA)	Router of Home Network	
Foreign Agent (FA)	Router of migration	Only Ipv4
	place (except Home	
	Network)	
Home Address	Fixed address held by MN	
Care-Of	Address used in	
Address (COA)	migration place	
Access Router (AR)	Router that executes	
	processing for	
	notifying MN of router	
	information (Router	
	Advertisement)	
	(without generating	
	COA) in migration place	
Mobility Anchor	Router on layer higher	
Point (MAP)	than AR to control a	
	plurality of ARs	
	hierarchically	
Regional Care-Of	COA to identify MN in MAP	
Address (RCOA)	and be notified to HA	
	(enabling its automatic	
	generation from Prefix	
	of MAP)	
On-Link Care-of	COA to identify MN in	
Address (LCOA)	network to which AR in	
	communication belongs	
	and be notified only to	
	MAP (enabling its automatic generation	
	from Prefix of AR)	
Binding	Correspondence between	
Dinaing	Home Address and	
	Care-of Address of MN	
Binding Update	Notification to HA of	
(BU)	Binding in migration	
, ,	place	
Binding	Reception ACK in	
Acknowledgement	response to Binding	
(BA)	Update	
Binding Request	Request for	
(BR)	transmission of Binding	
	Update to MN	
Gateway GPRS	Service node defined in	

Support (GGSN)	Node	GPRS, extension of packet mode of GSM, serving as an external gateway	
Serving Support (SGSN)		Service node defined in GPRS, extension of packet mode of GSM, relaying between GGSN and MN	
Tunneling		Assigning a header newly and forwarding data	